

WHAT IS CLAIMED IS:

1. A glass for substrate, which consists, as represented by mass percentage, essentially of:

	SiO ₂	40 to 59%,
5	Al ₂ O ₃	5 to 20%,
	B ₂ O ₃	0 to 8%,
	MgO	0 to 10%,
	CaO	0 to 12%,
	SrO	2 to 20%,
10	BaO	0 to 2%,
	ZnO	0 to 4%,
	Li ₂ O	0 to 2%,
	Na ₂ O	0 to 10%,
	K ₂ O	0 to 12%,
15	TiO ₂	0 to 10%, and
	ZrO ₂	0 to 5%,

wherein MgO+CaO+SrO+BaO is at least 15%.

2. The glass for substrate according to Claim 1, wherein Al₂O₃+TiO₂ is at least 11%.

20 3. The glass for substrate according to Claim 1, wherein BaO+Li₂O+Na₂O+K₂O is at most 14%.

4. The glass for substrate according to Claim 2, wherein BaO+Li₂O+Na₂O+K₂O is at most 14%.

5. The glass for substrate according to Claim 4,
25 wherein Li₂O+ZnO is at most 2%.

6. The glass for substrate according to Claim 1, wherein Li₂O+ZnO is at most 2%.

7. The glass for substrate according to Claim 1, which has an average linear expansion coefficient of at least $70 \times 10^{-7}/^{\circ}\text{C}$ within a range of from 50 to 350°C .

8. The glass for substrate according to Claim 1, which
5 has a glass transition temperature of at least 600°C .

9. A glass substrate made of the glass for substrate as defined in Claim 1, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C
10 under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

10. A glass substrate made of the glass for substrate as defined in Claim 2, wherein the number of attachments
15 having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

20 11. A glass substrate made of the glass for substrate as defined in Claim 3, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the
25 number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

12. A glass substrate made of the glass for substrate as

defined in Claim 4, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the
5 number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

13. A glass substrate made of the glass for substrate as defined in Claim 5, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of
10 the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

14. A glass substrate made of the glass for substrate as
15 defined in Claim 7, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less
20 than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

15. A glass substrate made of the glass for substrate as defined in Claim 8, wherein the number of attachments having sizes of at least $10\text{ }\mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120°C
25 under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes of from $1\text{ }\mu\text{m}$ to less than $10\text{ }\mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.